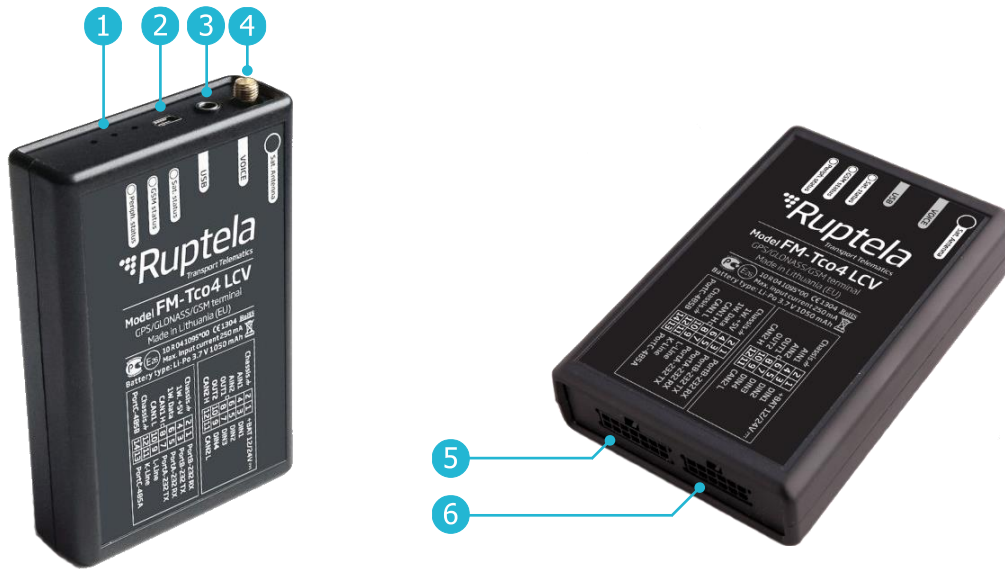


Make sure that you have:

- OBDII standard compatible vehicle (2008 or newer)
- Computer with Windows 7/8/10
- Internet connection (or a predownloaded configurator pack)
- USB A to USB mini cable
- OBD harness (optional)

Device overview



- 1 Indication LEDs
- 2 Mini USB port
- 3 Audio jack
- 4 GNSS antenna port
- 5 14 Pin port
- 6 12 Pin port

Indication LED patterns

LED	Pattern	Description
GNSS	Once every second	Accurate signal
	Once every 0.4 seconds	No signal
GSM	Once every 4 seconds	Accurate signal
	Once every 0.2 seconds	No signal
	Always on	Sending data
1-Wire	Always off	No devices connected
	Once every 5 seconds	One device connected
	Twice every 5 seconds	Two devices connected
	Three times every 5 seconds	Three devices connected
All	Once every 5 seconds	Sleep/deep sleep mode

Device pinout

No.	Pin	Wire color	Description
1	+BAT 12/24V	Red	Power supply 12/24 V
2	Chassis	Black	Ground connection
3	DIN1	Pink	Digital input 1
4	AIN1	Grey	Analog input 1
5	DIN2	Blue	Digital input 2
6	AIN2	Green	Analog input 2
7	DIN3	White	Digital input 3
8	DOUT1	Purple	Digital output 1
9	DIN4	Yellow	Digital input 4
10	DOUT2	Orange	Digital output 2
11	CAN2 L	Blue/Red	CAN interface low connection
12	CAN2 H	White/Red	CAN interface high connection

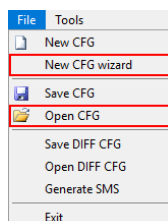
No.	Pin	Wire color	Description
1	PortB-232 RX	Yellow	RS 232 port B
2	Chassis	Black	Ground connection
3	PortB-232 TX	Orange	RS 232 port B
4	1W. +5V	Red	1-Wire power supply
5	PortA-232 RX	Purple	RS 232 port A
6	1W. Data	Green/Yellow	1-Wire data
7	PortA-232 TX	Pink	RS 232 port A
8	CAN1 H	White	CAN interface high connection
9	L-Line	Green	L-Line channel
10	CAN1 L	Blue	CAN interface low connection
11	K-Line	Brown	K-Line channel
12	Chassis	Black	Ground connection
13	PortC-485 A	White/Red	RS 485 line A
14	PortC-485 B	Yellow/Brown	RS 485 line B

Start using in quick 12 steps

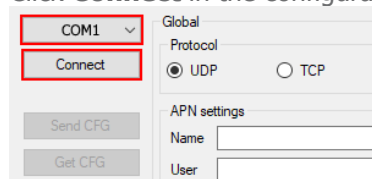
- 1 Download and install the latest [VCOM drivers](#). Download the device [configurator](#).



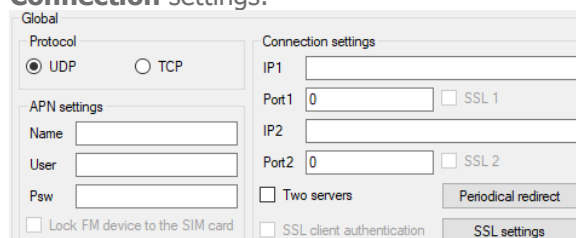
- 3 Download the [sample config file](#). Click **File** -> **Open CFG** to load the config file. Or use **New CFG wizard** to create a new config.



- 2 Connect the device to your computer using a USB cable. Start the configurator. Select the port you connected your device to. Click **Connect** in the configurator.

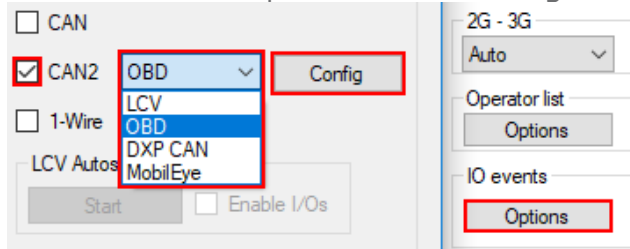


- 4 Configure GSM provider **APN** settings. Configure Fleet Management System **Connection** settings.



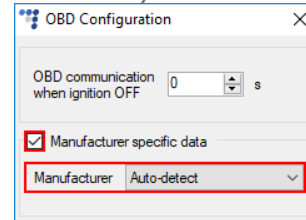
5 Click **Options** in **IO events**.

In **Interfaces**, tick the CAN interface you will connect to (if you have a harness, tick **CAN2**). Select **OBD** in the drop-down list. Click **Config**.

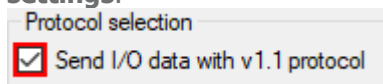


6 Tick the **Manufacturer specific data** checkbox.

Select your vehicle's **Manufacturer** or leave it as *Auto-detect* (will only work if the vehicle's VIN is received).

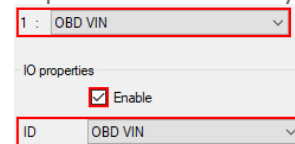


7 Enable the v1.1 protocol on the top right side of **IO settings**.

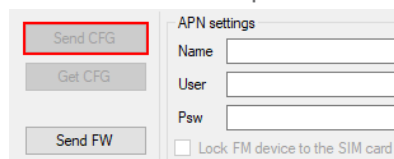


8 Select a parameter slot on the top left side of **IO settings**.

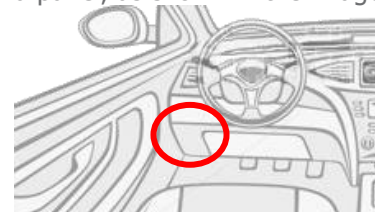
Select an OBD parameter in **ID**. Tick the **Enable** checkbox. Repeat for all necessary OBD parameters.



9 Click **Send CFG** to upload the config to the device.



10 Locate the OBD port in your vehicle. It is usually located on the driver side underneath a panel, as shown in the image below.



11 Install the device in the vehicle using zip-ties. **Make sure it is secured tightly.** Connect the device according to the wiring diagram (**on Page 4**).



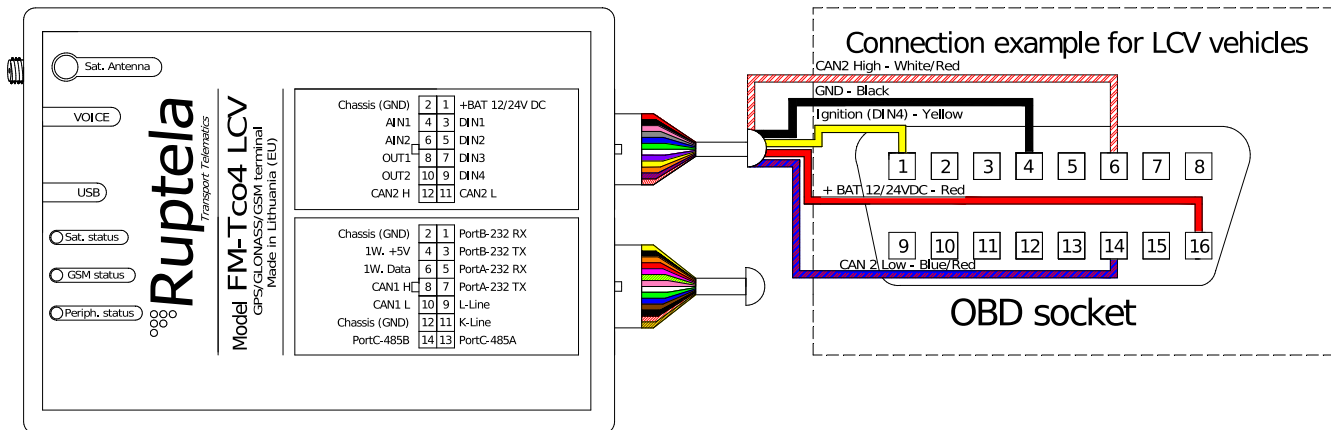
12 Install the GNSS antenna directed upwards. Follow the recommendations:

- Install behind the dashboard
- Install as close to the window as possible
- Avoid installing near metal surfaces



Wiring diagram

- Power input 12/24 V DC



Supported OBDII parameters list

IO ID	Description	IO ID	Description
93	DTC and MIL status	101	Actual engine – percent torque, %
94	RPM	102	Distance travelled while MIL is activated, km
95	Vehicle speed sensor, km/h	103	Relative accelerator pedal position, %
96	Engine coolant temperature, °C	104-106	VIN code
97	Ambient air temperature, °C	107	Time since engine start, s
98	Fuel level, %	108	DTC counted
99	Type of fuel	642	Fuel level, l
100	Engine fuel rate, l/h	645	Odometer, km

Further reading

- Documentation website: <http://doc.ruptela.com>
- List of supported OBDII vehicles: <https://doc.ruptela.lt/display/AB/OBD>
- Datasheet: <https://doc.ruptela.lt/pages/viewpage.action?pageId=884777>
- User manual: <https://doc.ruptela.lt/pages/viewpage.action?pageId=884777>
- Windows drivers: <https://doc.ruptela.lt/display/AB/FM4+drivers>
- Configurator tool: <https://doc.ruptela.lt/pages/viewpage.action?pageId=884804>

We highly recommend you to read the user manual before using the device.

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